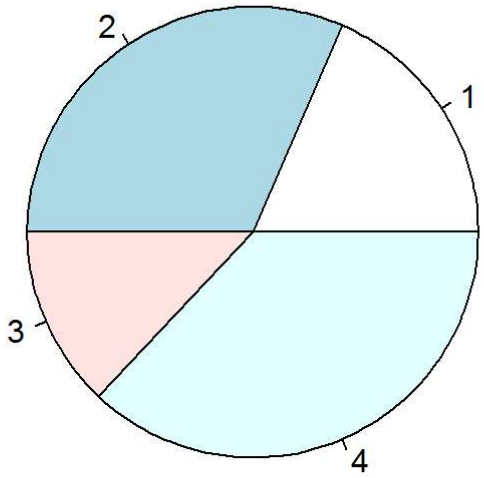
sdeekshi-Lab1.R

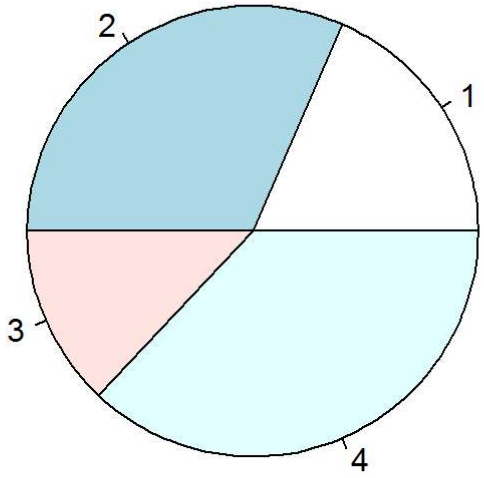
sdeekshi

Fri Feb 24 21:08:20 2017

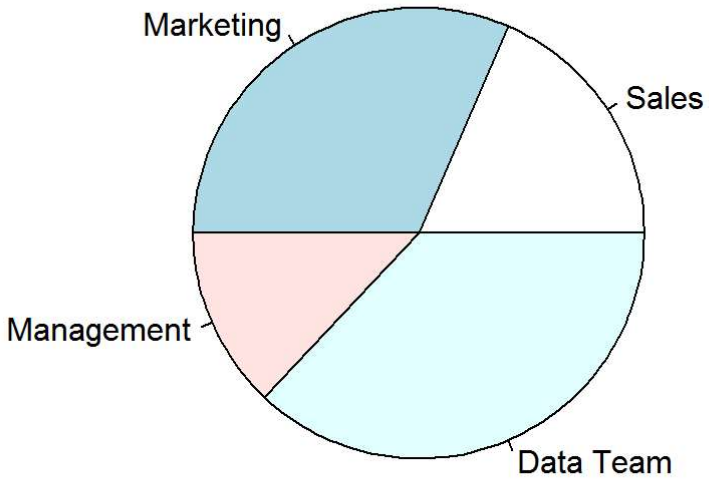
```
#Author : Suchitra D
#Purpose: Lab 1


pie(c(10,17,7,20))
```



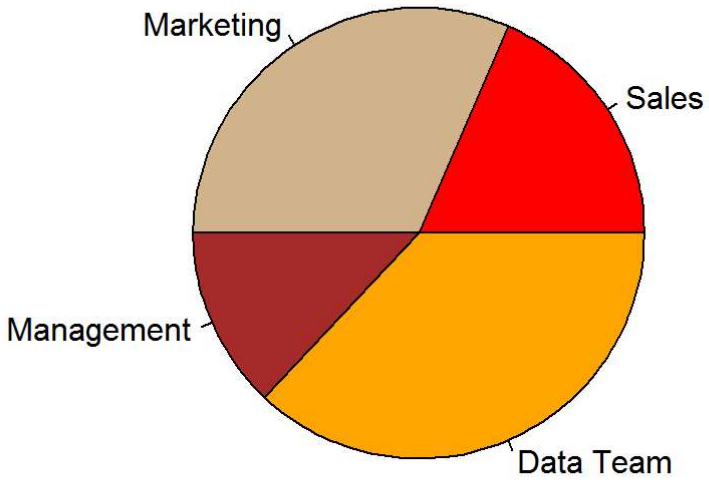

```
pie(c(10,17,7,20), main = "Suchi loves pie")
```



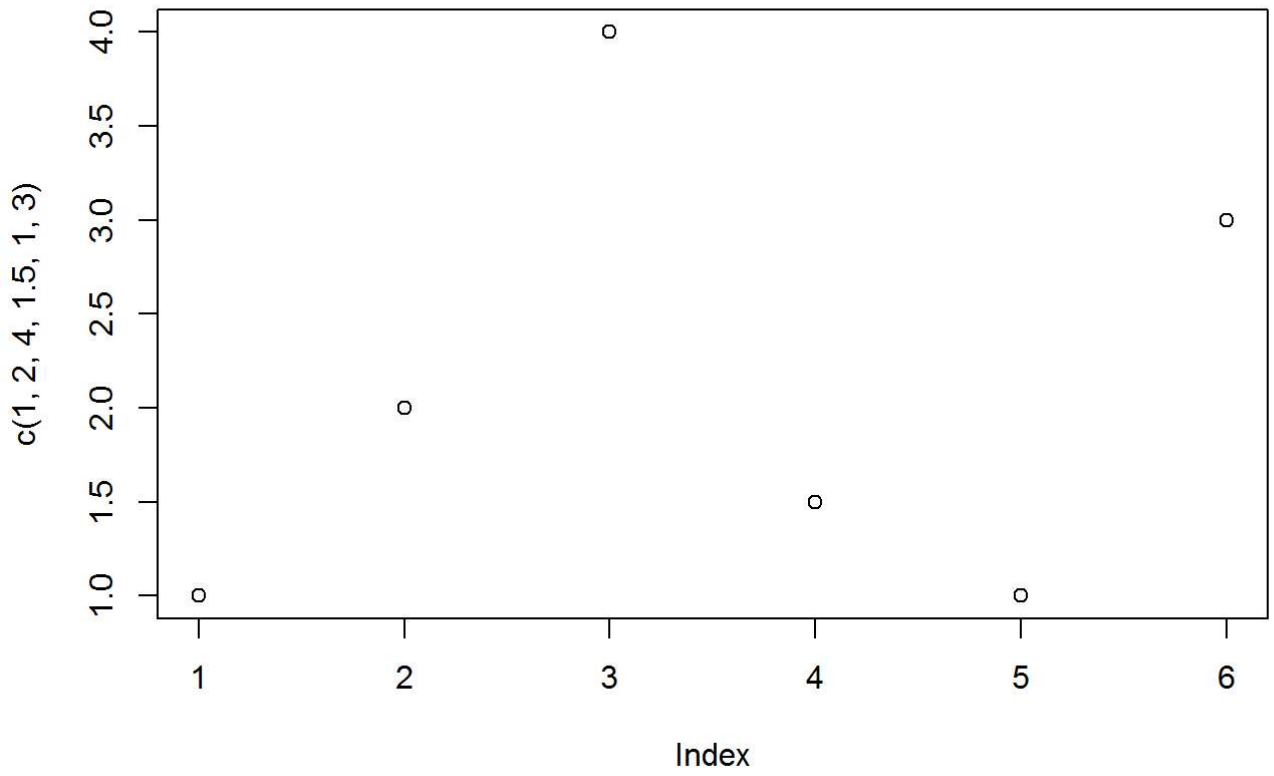

```
pie(c(10,17,7,20), main = "Suchi loves pie",
    labels =c("Sales","Marketing","Management","Data Team"))
```



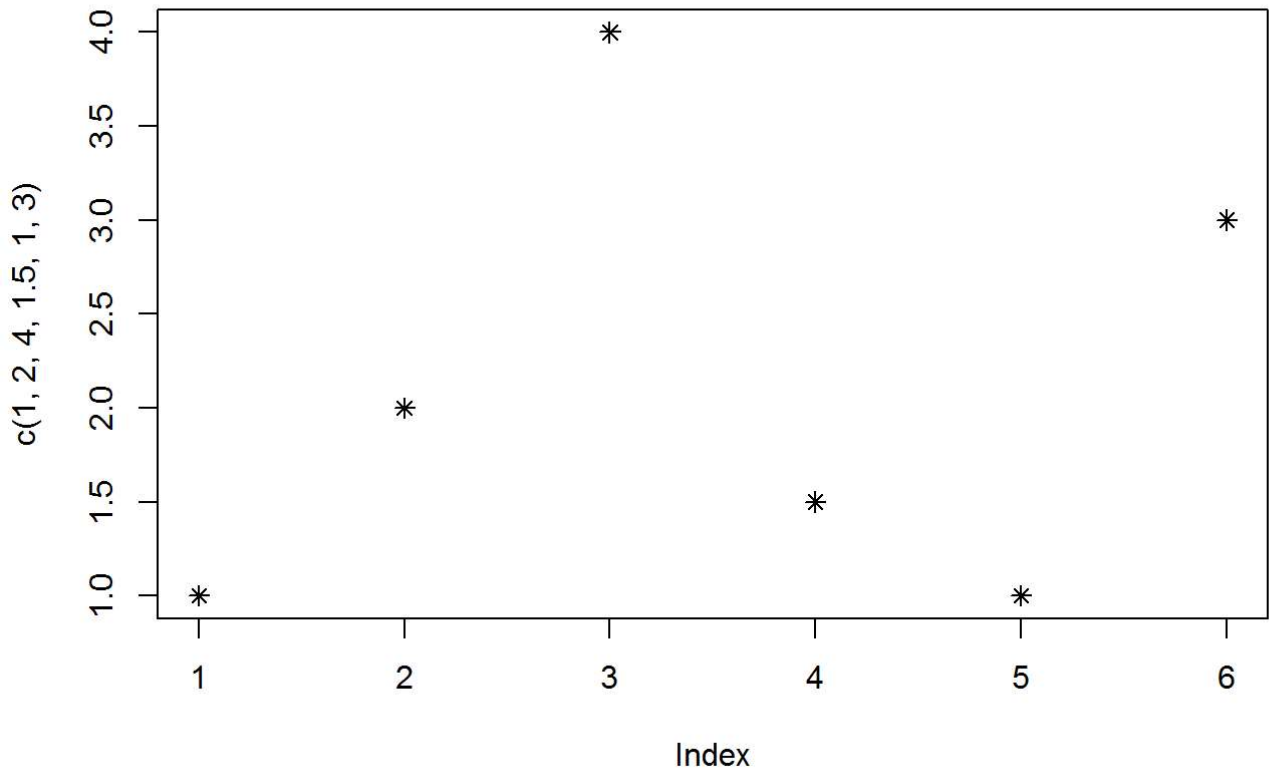

```
pie(c(10,17,7,20), main = "Suchi loves pie",
    labels =c("Sales","Marketing","Management","Data Team"),
    col =c("red","tan","brown","orange"))
```



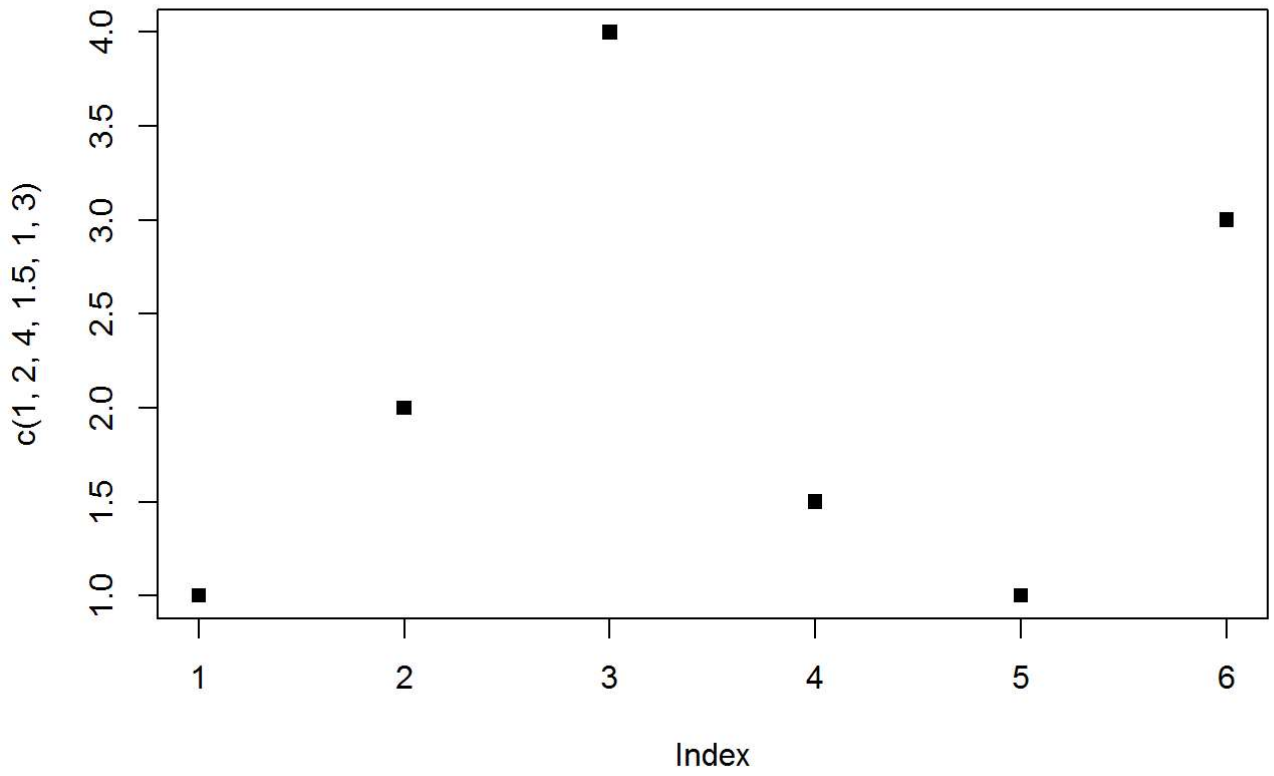

```
#basic plot
#pch = plotting char
#cex = pch size
#lwd = line width

plot(c(1,2,4,1.5,1,3))
```



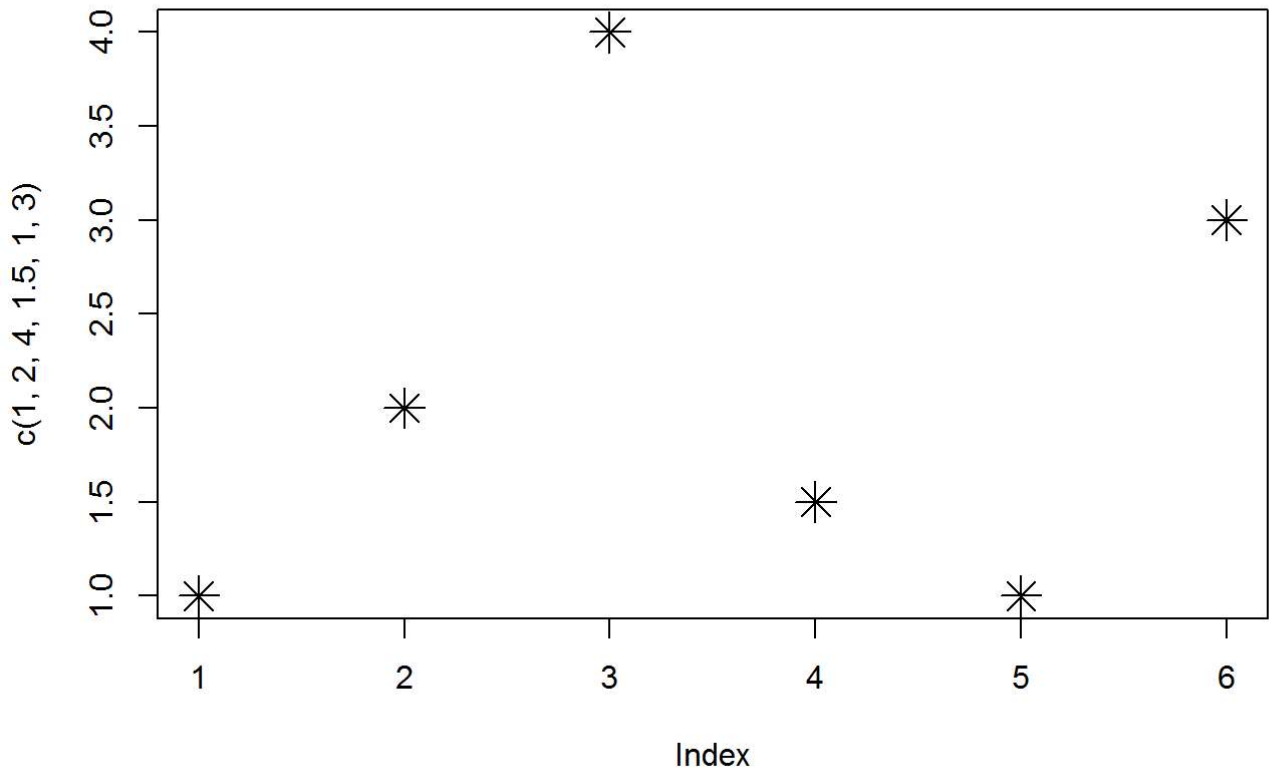

```
plot(c(1,2,4,1.5,1,3),pch =8)
```



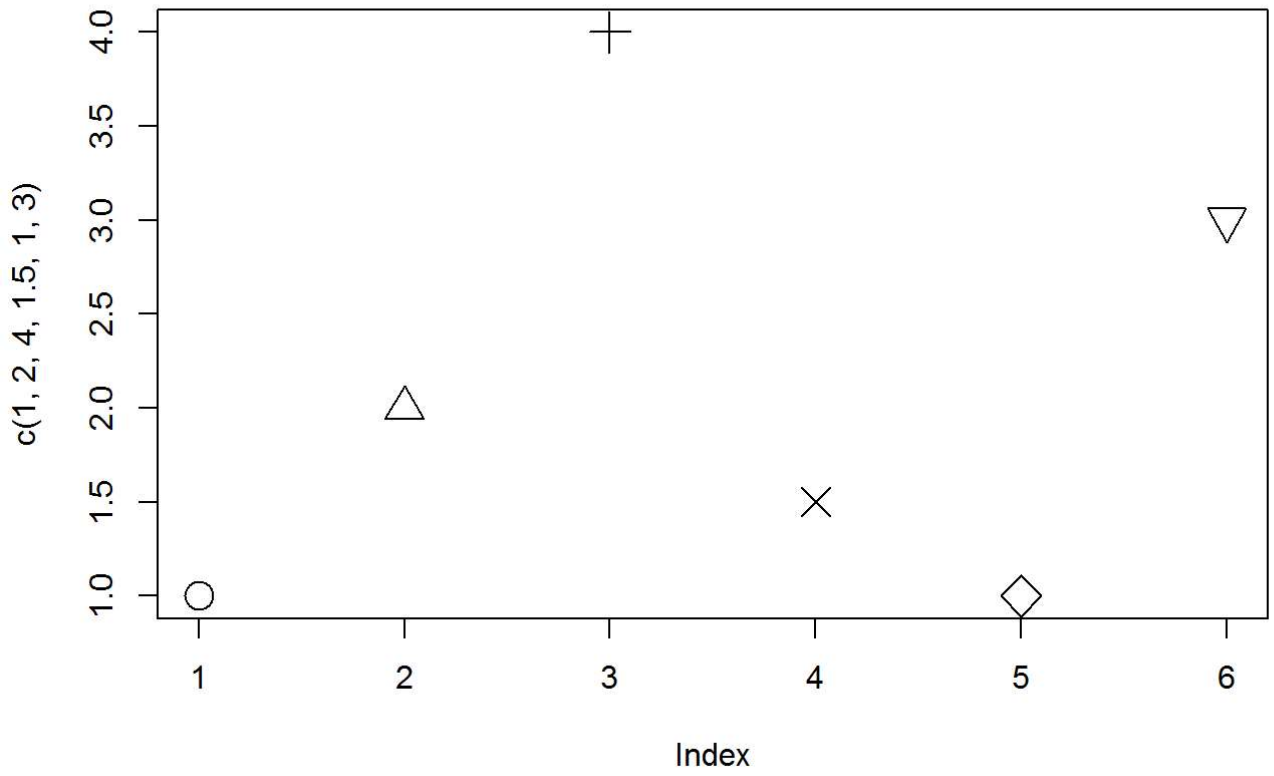

```
plot(c(1,2,4,1.5,1,3),pch =15)
```



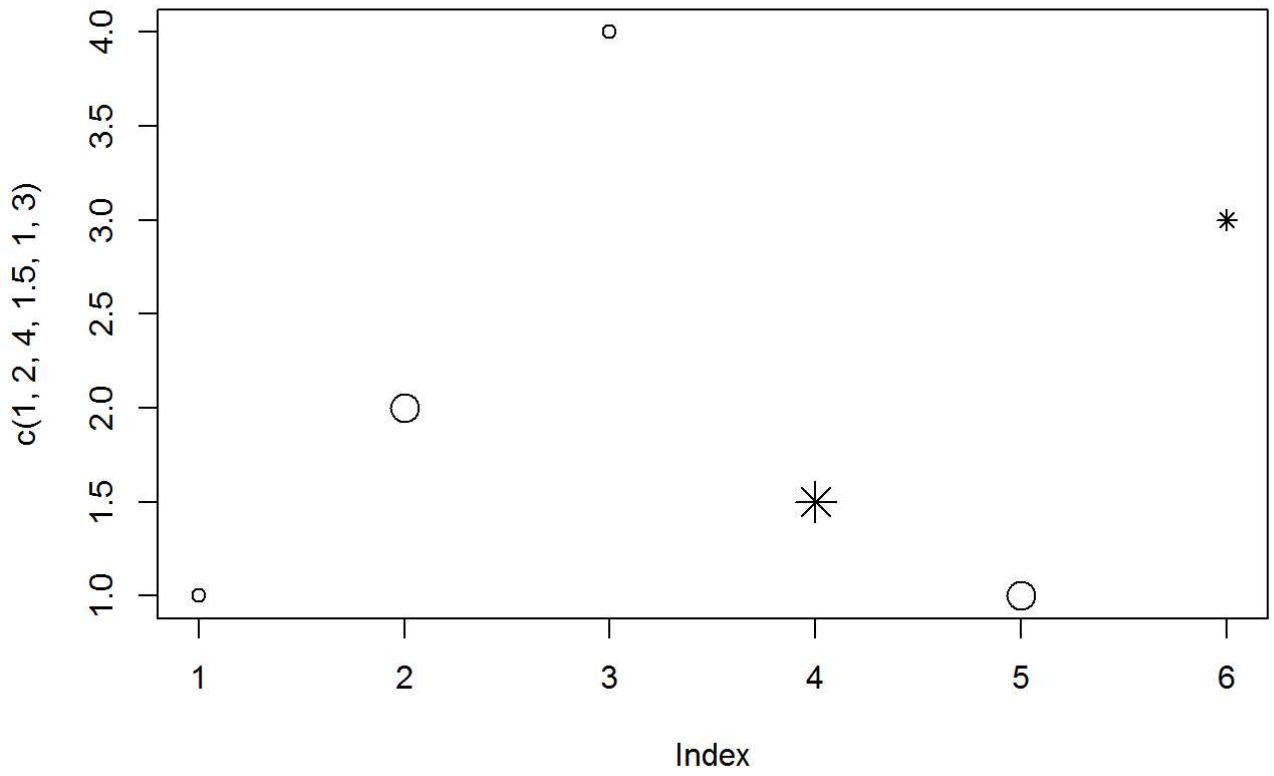

```
plot(c(1,2,4,1.5,1,3),pch =8,cex =2)
```



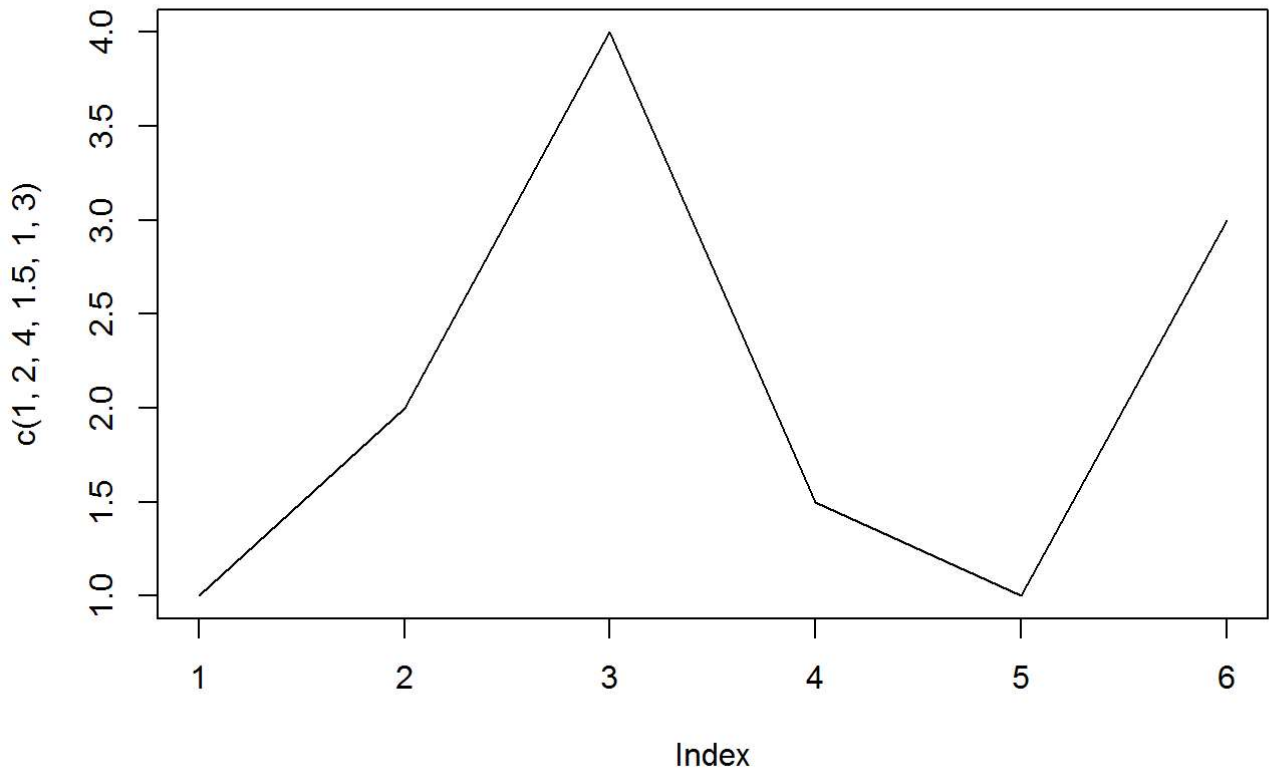

```
plot(c(1,2,4,1.5,1,3),
     pch =c(1,2,3,4,5,6),
     cex =2)
```




```
plot(c(1,2,4,1.5,1,3),
     pch =c(1,1,1,8,1,8),
     cex =c(1,2,1,2,2,1))
```




```
plot(c(1,2,4,1.5,1,3),
     pch =c(1,1,1,8,1,8),
     cex =c(1,2,1,2,2,1),
     type ="l")
```



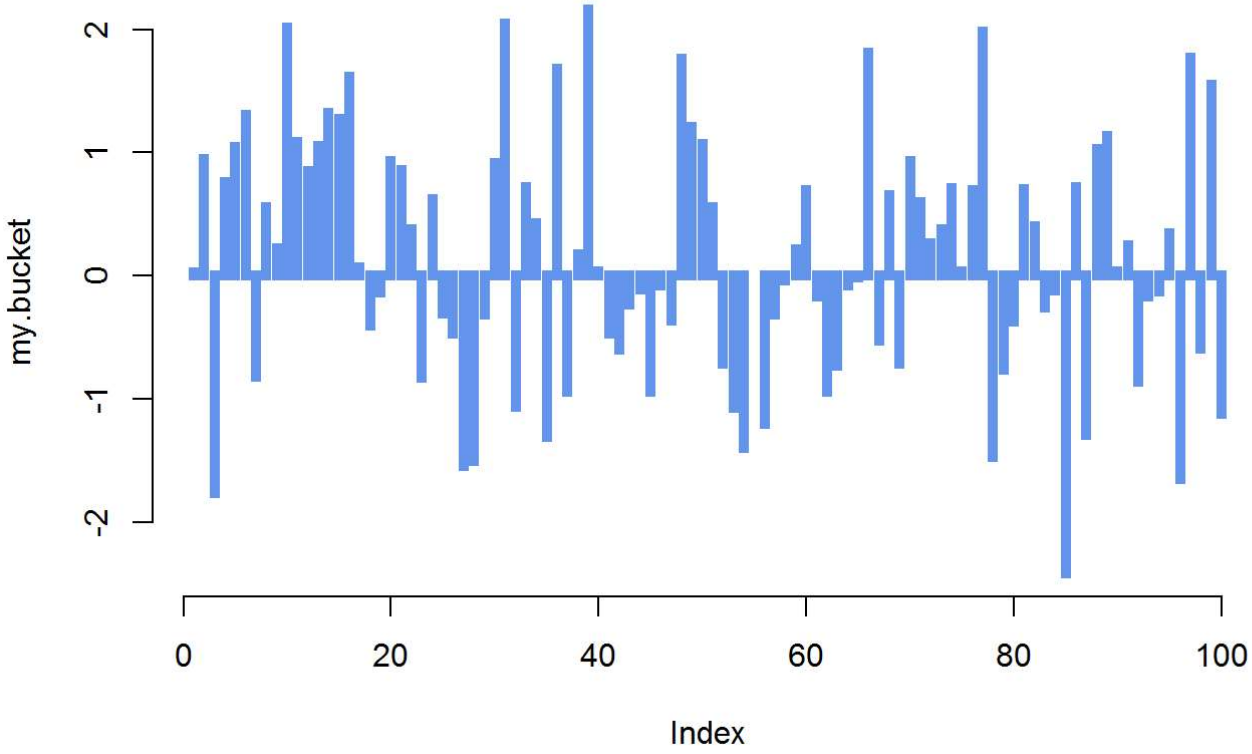

```
?plot
```

```
## starting httpd help server ...
```

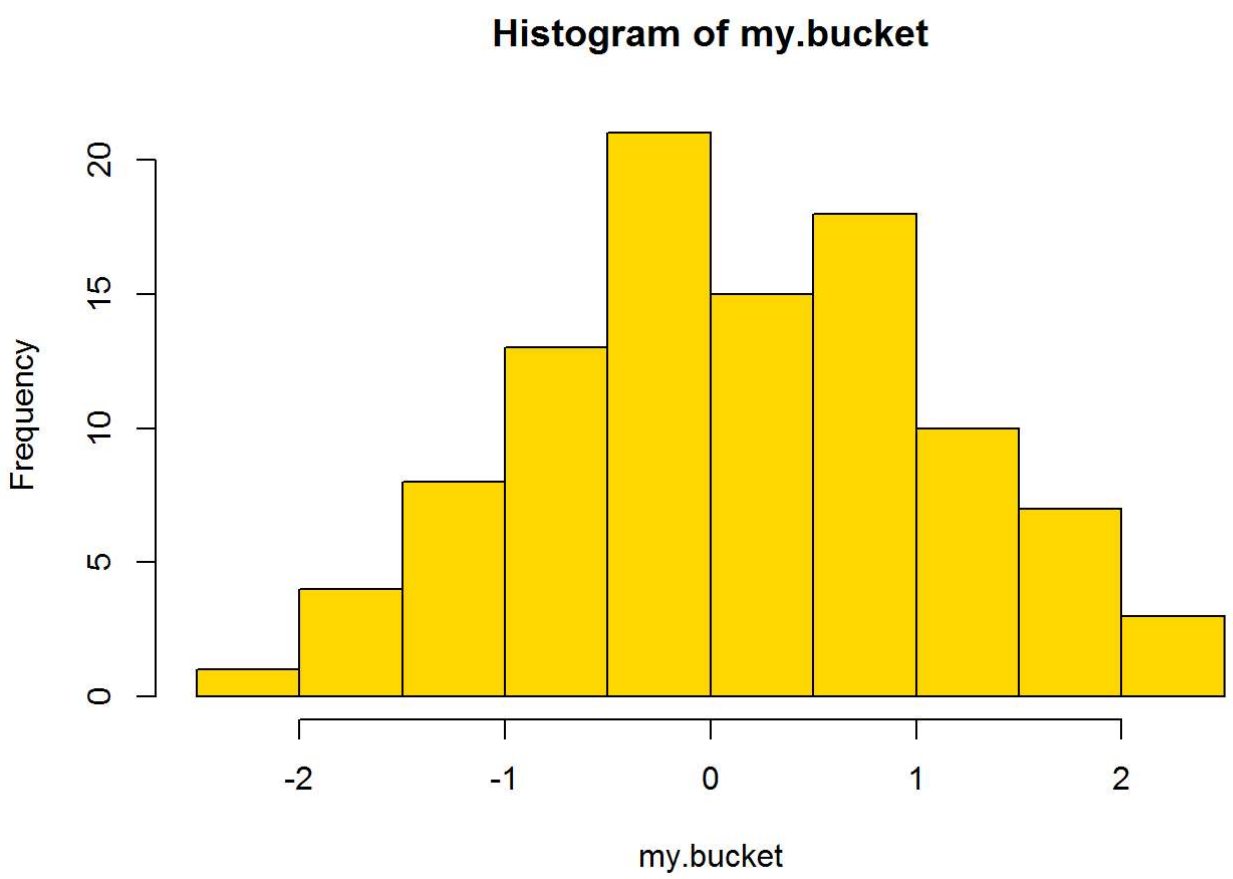
```
##  done
```

```
plot(c(1,2,4,1.5,1,3),
     #pch =c(1,1,1,8,1,8),
     #cex =c(1,2,1,2,2,1),
     type ="l",
     lwd = 3,
     col="orange",
     main= "Suchi second plot"
     )
```


```
my.bucket = rnorm(n=100)

#rnorm = random normal distribution
par(bty ="n")

#par = parameters : function that controls all parameters in plot space

plot(my.bucket,type ="h",lwd = 5, col="cornflowerblue",lend =2)
```



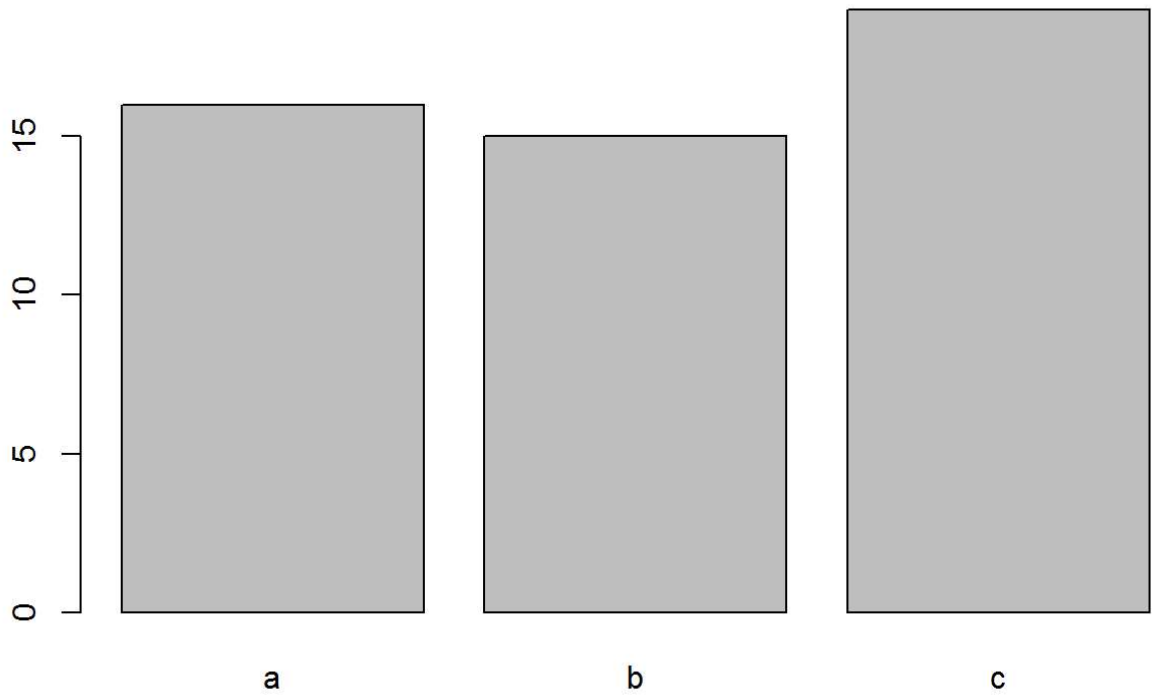

```
#Lend = line end

hist(my.bucket, col ="gold")
```



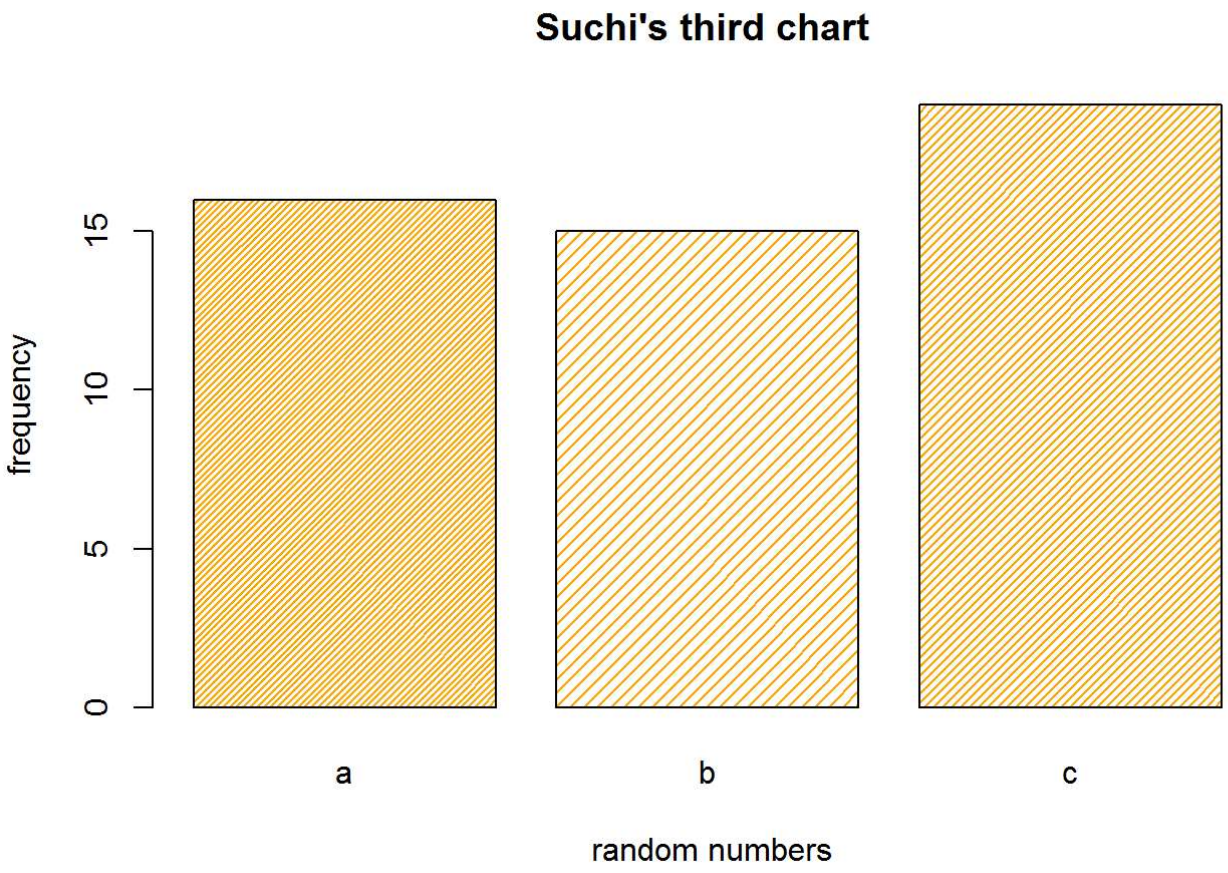

```
#hist = frequency disribution



n = 50
my.var  =sample(letters[1:3],size = n,replace = TRUE)

my.table = table(my.var)
my.table
```

```
## my.var
##  a  b  c
## 16 15 19
```

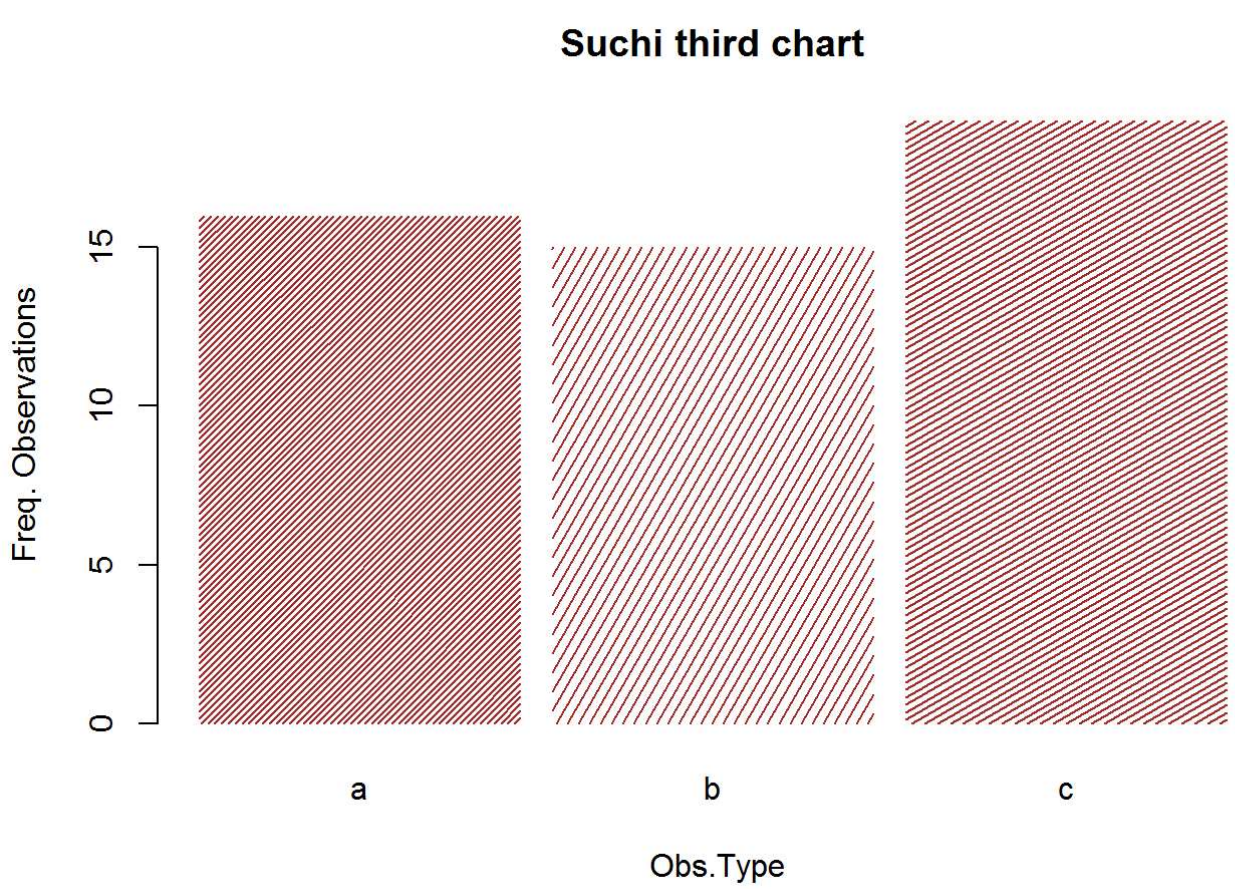
```
barplot(my.table)
```




```
# for lab 1 : use at atleast 6 parameters
barplot(my.table,width =1, density = c(40,20,30),
        col = " orange", main ="Suchi's third chart ",
        xlab = " random numbers", ylab = " frequency",
        axisnames = TRUE)
```




```
barplot(my.table, width =1, space =.1, border = NA,
        col="brown",density = c(40,20,30),
        angle = c(45,60,30),
        ylab="Freq. Observations",
        xlab = " Obs.Type",
        main = "Suchi third chart")
```




```
#barchart vs histogram?

#barchart : The columns are positioned over a label that represents a categorical variable.
#hist : The columns are positioned over a label that represents a quantitative variable.

#One implication of this distinction: it is always appropriate to talk about the skewness of a h
istogram;
#that is, the tendency of the observations to fall more on the low end or the high end of the X
 axis.
#With bar charts, however, the X axis does not have a low end or a high end;
#because the labels on the X axis are categorical - not quantitative.
#As a result, it is not appropriate to comment on the skewness of a bar chart.
```